ACCESSION NR: AP4011720

where k_1,\ldots,k_n - arbitrary complex numbers. A detailed solution is given for n=3 both in a repulsing and an attracting field. The ψ -functions of the scattering theory are found, satisfying the Lippmann-Schwinger equations, and their completeness (both in coordinate and momentum space) is proved. The scattering operator is constructed in terms of the ψ -functions

 $S(b|a) = \int d^3x \, \overline{\psi_{\text{out}}(x|b)} \, \psi_{\text{in}}(x|a).$

and its eigenfunctions and eigenvalues, in particular for symmetric function subspace with elastic scattering, are found. "The authors express their gratitude to the members of the I. Ye. Tamm seminar in FIAN in October 1962." Orig. art.

ASSOCIATION: Moskovskiy universitet, Kafedra teorii funktsiy i funktsional nogo analiza (Moscow University, Department of Theory of Functions and Functional Analysis)

SUBMITTED: 07Feb63

DATE ACQ: 14Feb64

EWCL: 00

SUB CODE: PH

NO REF SOV: 003

OTHER: 003

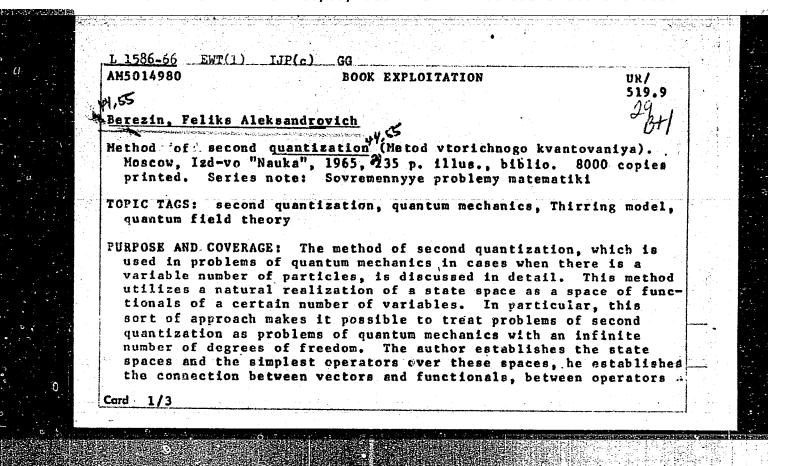
Card 2/2

BEREZIN, F.A.

Track formula for Schrodinger's many-particle equation.

Dokl. AN SSSR 157 no.5:1069-1072 Ag '64. (MIRA 17:9)

1. Moskovskiy gosudarstvennyy universitet. Predstavleno akademikom I.G. Petrovskim.



L-1586-66 M5014980				0
and functionals, and the The book is intended for mathematics and physics	scientific work	operations ers, graduat	on function students	nels.
TABLE OF CONTENTS:			•	
oreword 6		\		
introduction == 9			•	
Chapter I. Generating fun Section I. Creation and functionals	annihilation ope			
Section 2. Operations case 45	on generating fu	nctionals.	The Bose	
Section 3. Operations	on generating f	unctionals.	The Fermi	
Chapter II. Canonical lin Section 4. The Bose cas	ear transformati	ons 96		

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Q	Section 5. The Fermi case 127	
	Chapter III. Quadratic operators 147 Section 6. Quadratic operators reduced to normal form 148 Section 7. Quadratic operators not reduced to normal form 163 Section 8. The canonical form of the quadratic operator 181	sin Sin Sin
	Chapter IV. The Thirring model of quantum field theory 193 Section 9. The Thirring four-fermion model 193	• .
	Supplement. The Wick Theorem 212	
	Bibliography 233, SEBHITTED: CLI. 65 Teno ner Sov. 24	
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	OTHER: 029	-
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L00816-66 EWT(d) IJP(c)
ACCESSION NR: AP5020819

UR/0020/65/163/004/0795/0798

AUTHOR: Berezin, F. A.

TITLE: Asymptotics of the eigenfunctions of the multi-particle Schrodinger equation

SOURCE: AN SSSR. Doklady, v. 163, no. 4, 1965, 795-798

TOPIC TAGS: differential equation, Schrodinger equation, eigenfunction

ABSTRACT: The author considers

$$\left\{-\left(\frac{\partial^2}{\partial x_1^3}+\cdots+\frac{\partial^2}{\partial x_n^3}\right)+\sum_{i\leqslant j}v\left(x_i-x_j\right)\right\}\psi=ic^2\psi,\tag{1}$$

subject to the condition

$$v(x) = \int_{\mu_0}^{\infty} e^{-\mu |x|} \xi(\mu) d\mu, \quad \int_{\mu_0}^{\infty} |\xi(\mu)| d\mu < \infty, \quad \mu_0 > 0, \quad (2)$$

where v(x) is the potential. He shows the existence of symmetric and entisymmetric solutions and proves a completeness theorem for summable square symmetric and antisymmetric solutions. He finds asymptotics of these symmetric and antisymmetric solutions. Orig. art. has: 17 formulas.

Cord 1/2

LOO816-66 ACCESSION N	R: AP5020819			· · · · · · · · · · · · · · · · · · ·	•		
ASSOCIATION	none						
SUBMITTED:	06Jan65		ENCL:	00		SUB CODE:	MA
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BEREZIN, F.B.

State of vegetative nervous system in an unusual form of vestibular encephalitis. Izv. AN Kazakh. SSR. Ser. med. i fiziol. no.2:101-108 61. (MIRA 15:4)

1. Iz Ust'-kamenogorskogo otdeleniya (zav. - M.K.Kayrakbayev) Instituta krayevoy patologii AN Kazakhskoy SSR (direktor - B.A. Atchabarov).

(ENCEPHALITIS) (VESTIBULAR APPARATUS—DISEASES)
(NERVOUS SYSTEM, AUTONOMIC)

Use of hypoglycemic sulfamides in treating schizophrenia resistant to insulin. Zhur. newr. i psikh. 62 no.4:598-600 '62'. (MIRA 15:5) 1. Leninogorskiy psikhonevrologicheskiy dispanser (glavnyy vrach F.B.Berexin). (SCHIZOPHRENIA) (SULFAMIDE) (INSULIN SHOCK THERAPY)

BEREZIN, F.B.

Study of the sequelae of the vestibular form of encephalitis. Zhur. nevr. 1 psikh. 62 no.3:356-360 '62. (MIRA 15:3)

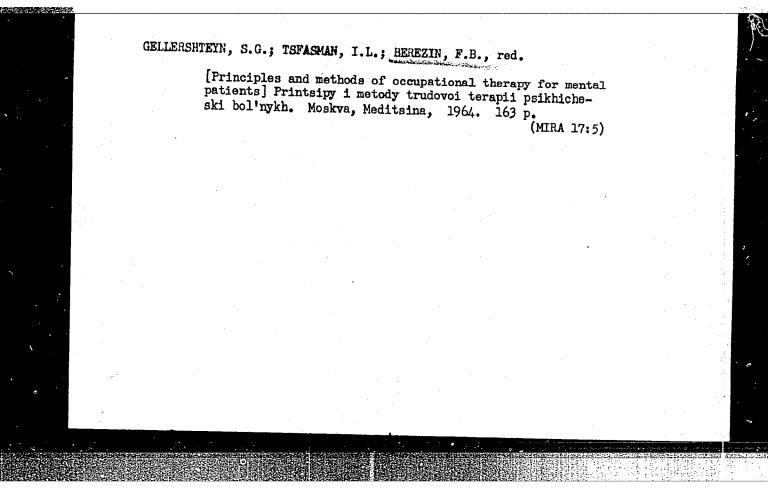
1. Leninggorskiy psikhonevrologicheskiy dispanser (glavnyy vrach D.M. Vil'vovskaya).

(ENCEPHALITIS)
(VESTIBULAR APPARATUS—DISEASES)

KOLOVALOV, Nikolay Vasil'yavich; EEREZIN, F.B., red.

[Subacute anterior poliomyelitis] Podostryi perednii poliomielit. Moskva, Izd-vo "Meditsina," 1964. 95 p.

(MIRA 17:7)



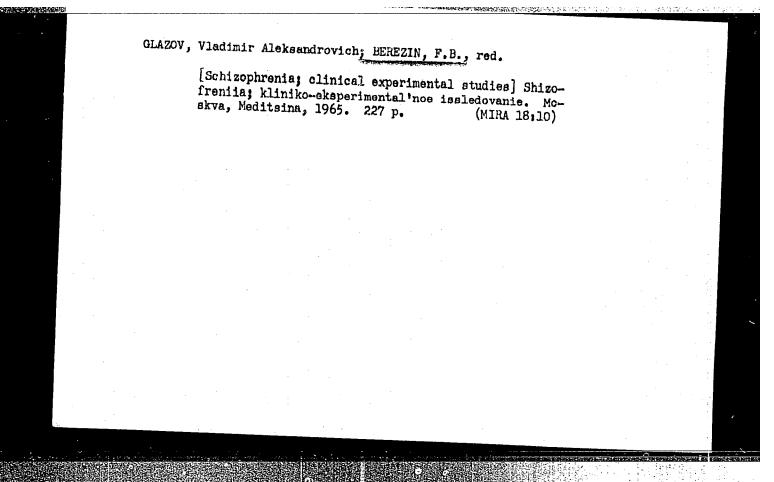
BANSHCHIKOV, V.M.; NEVZOROVA, T.A.; BFREZIN, F.B.

Dynamics and pathogenesis of the psychopathological symptomatology of diencephalic lesions. Zhur. nevr. i psikh. 64 no.10:1521-1527 '64. (MIRA 17:11)

1. Kafedra psikhiatrii (zaveduyushchiy - prof. V.M. Banshchikov) I Moskovskogo ordena Lenina meditsinskogo instituta im. Se henova.

ZHISLIN, Samuil Grigor yevich; BEREZIN, F.B., red.

[Studies on clinical psychiatry; clinical pathogenetic relations] Ocherki klinicheskoi psikhiatrii; kliniko-patogeneticheskie zavisimosti. Moskva, Meditsina, 1965. 319 p. (MIRA 18:6)



F477(1) RO D 1005 1-46 ACC "NRI" AR6022383 (\mathcal{N}) SOURCE CODE: UR/0397/65/000/024/0023/0023 Berezin, F. B. AUTHOR: 3. TITLE: Some data on the use of indopan in treating schizophrenia SOURCE: Ref. zh. Farmakologiya. Toksikologiya, Abs. 24.54.180 REF SOURCE: Sb. Vopr. klinich. nevrol. i psikhiatrii. T. 4. Tartu, 1965, 52-55 TOPIC TAGS: pharmacology, nervous system drug, drug effect, psychopathology ABSTRACT: 32 schizophrenic patients with case histories of 2 to 11 yrs were treated with indopan (methyl tryptamine hydrochloride) in individually selected doses (5 to 80 mg). Treatment lested 1 to 3 mos. Effect was noted from the first month. Better results were attained when schizophrenia was accompanied by a depressive state with reduced psychic activity and secondary catatonic stupor. The effect of indopan was increased when used in combination with tranquilizers. K. D. Translation of abstract. SUB CODE: 06 Card 1/1 477 UDC: 615.7

ACC NR: AP6033917

SOURCE CODE: UR/0246/66/066/010/1561/1565

AUTHOR: Banshchikov, V. M. (Head; Professor); Berezin, F. B.

ORG: Department of Psychiatry (Head-Prof. V. M. Banshchikov) First Moscow Medical Institute (Kafedra psikhiatrii Pervogo moskovskogo meditsinskogo instituta)

TITLE: The action mechanism of psychotropic substances (the fast and slow component of the psychopharmacological effect)

SOURCE: Zhurnal nevropatologii i psikhiatrii, v. 66, no. 10, 1966, 1561-1565

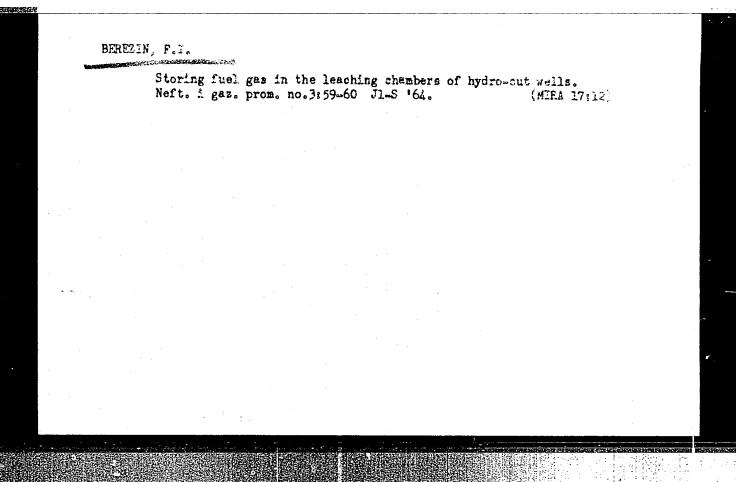
TOPIC TAGS: psychiatry, psychotherapy, psychophysiology, drug treatment, gamma amino butyric acid, elementermenter, reservine, levomepromazine, mazheptil, CHLOR PROMAZINE, TRANGUILIZER, PSYCHOLOGY, DRUG FFLECT

ABSTRACT: The effects of fast-acting, predominately tranquilizing neuroleptic drugs, of which levomepromazine is an example, and of slower-acting, basically antipsychotic drugs, typified by "mazheptil," are discussed and compared. The authors studied the relationship between the tranquilizing and antipsychotic effects of gamma-aminobutyric acid (GABA)-derivative drugs, using two compounds (β -phenyl- γ -aminobutyric acid and sodium hydroxybutyrate) which penetrate the blood-brain

Card 1/2

UDC: 615.786-036

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7月093 S/185/62/007/011/005/019 D234/D308

AUTHORS:

Berezin, F.N., Ofenhenden, R.H., Rozental', U.M. and Shaleyko, M.A.

11 :

TITLE:

The small amplitude analyzer AIMA-3 (AIMA-3)

PERIODICAL:

Ukrayins'kyy fizychnyy zhurnal, v. 7, no. 11, 1962,

1180-1190

TEXT: This analyzer was designed in order to improve the reliability and some characteristics of ATMA-2. The channel generator circuit is completely changed. Instead of frequency dividers an artificial delay line is used, the delay being 30 or 48 µsec. In the memory unit, two recording heads are used, the distance of one from the playback head being 1.5 times greater than that of the other. This increases the number of channels to 120. In the supply unit, kenotrons are replaced by silicons diodes, which decreases the number of transformers and choke coils. The number of vacuum tubes has been reduced from 128 to 84. The number of channels is 50 (with channel capacity of 65535 pulses), 80 or 120 (1023 pulses).

Card 1/2

The small amplitude ...

\$\frac{185}{62}/007/011/005/019 D234/D308

Background subtraction is possible with a factor 1, 2 and 4. The analyzer consists of a measuring unit and a supply unit, each 300 x 450 x 500 mm. There are 13 figures.

ASSOCIATION:

Instytut fizyky AN URSR, Kyyiv (Institute of Physics of the AS UkrSSR, Kiev)

SUBMITTED:

June 8, 1962

Card 2/2

REREZIN, F.N.; OFENGENDEN, R.G. [Ofenhenden, R.H.]; ROZENTAL', O.M.; SHALEYKO, M.A.

Small-size pulse-height analyzer AIMA-3. Ukr.fiz.zhur. 7 no.11: 1180-1190 N '62. (MIRA 15:12)

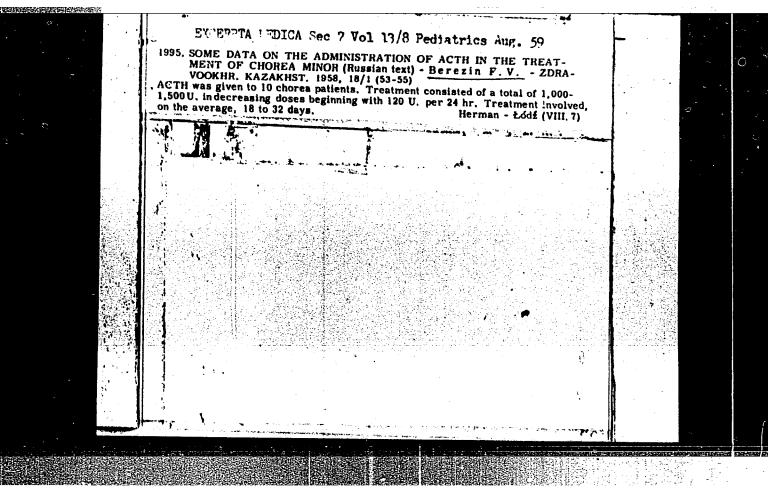
1. Institut fiziki AN UkrSSR, Kiyev.
(Electronic differential analyzer)

MAL'NEV, A.F.; KREMENCHUGSKIY, L.S.; HEREZKO, B.N.; SHEVTSOV, L.N.;
BOGDEVICH, A.G.; KIRILLOV, G.M.; CHASHECHNIKOVA, I.T.;
YARMOLENKO, N.A.; OFENGENDEN, R.G.; SERMAN, V.Z.;
DALYUK, Yu.A.; HEREZIN, F.N.; KONENKO, L.D.; SHALEYKO, M.A.;
SHEVCHENKO, Yu.S.; STOLYAROV, V.A.; KIRILLOV, G.M.; BOGDEVICH, S.F.;
LYSENKO, V.T.; BRASHKIN, N.A.; SKRIPNIK, Yu.A.; GRESHCHENKO, Ye.V.;
TUZ, R.M.; SERPILIN, K.L.; GAPCHENKO, L.M.

Abstracts of completed research works. Avtom. 1 prib. no.3:90-91 Jl-S '62. (MIRA 16:2)

1. Institut fiziki AN UkrSSR (for all except Skripnik, Greshchenko, Tuz. Serpilin, Gapchenko). 2. Kiyevskiy politekhnicheskiy institut (for Skripnik, Greshchenko, Tuz, Serpilin, Gapchenko).

(Research)



BEREZIN, F.V. Some data on the use of ACTH in treating chorea minor. Zdrav. Kazakh. 18 no.1:53-55 '58. (MIRA 13:7) 1. Iz Leninogorskogo psikhonevrologicheskogo dispensera. (CHORKA) (ACTH)

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APPROVED FOR RELEASE: 06/08/2000

BEREZIN, F.V.

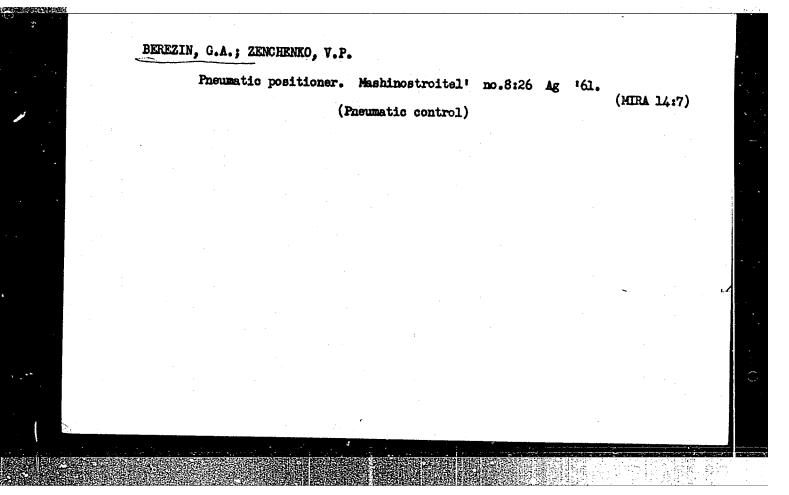
Periodic psychoses in diabetes insipidus. Vrach. delo no.2:130-131 F !61. (MIRA 14:3)

1. Leninogorskiy psikhonevrologicheskiy dispanser. (DIABETES) (MENTAL ILLNESS)

REFREZIN, F.V., inzh. (g.Leningrad); GONTEBERG, I.V., kand.tekhn.nauk
(g.Leningrad); GEL'VIT, Ia.K., inzh. (g.Leningrad); MAZURSKIY,
E.M., inzh. (g.Leningrad); TER-MIKAELYANTS, G.S., inzh. (g.Leningrad)

Useful work on the fundamentals of rathroad design ("Fundamentals of designing rathroads with electric and diesel traction" by
G.I. Chernomoxidik, IU.E. Ryvkin. Reviewed by F.V. Berezin and others). Zhel.dor.transp. 43 no.5:95-96 Je '61. (MIRA 14:7)
(Railroad engineering) (Chernomordik, G.I.)

(Ryvkin, IU.E.)



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L 10284-67 ENT(d)/EWP(v)/EWP(h)/EWP(1) FDN/GD ACC NR: AT6031185 (A) SOURCE CODE: UR/ 0000/66/000/000/0234/0241	
AUTHOR: Berezin, G. A.; Zenchenko, V. P.	
ORG: None TITLE: Synthesis of pneumatic systems of sequential automatic machines in the present of input signals	ce
SOURCE: Teoriya mashin-avtomatov i pnevmo-gidroprivodov (Theory of automatic machine and pneumatic and hydraulic drives); sbornik statey. Moscow, Izd-vo Mashinostroyeniye 1966, 234-241	ry
TOPIC TAGS: automatic pneumatic control, sequence, cyclic coding	
ABSTRACT: The authors consider operation of a self-contained automatic machine assuming that operation may be described by cyclic continuous repetition of a given word is some alphabet q . If q_i designates the internal state of the machine in the i -th cycle	
the operation of the system is defined by the relationship	
$q_i = F(q_{i-1}),$	
so that given operating conditions may be realized only if each state q_{t-1} uniquely	
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69-20-3-7/24

AUTHORS:

Avgul', N.N.; Berezin , G.I., Kiselev, A.V.; Korolev, A.Ya.

TITLE:

The Heat of Adsorption of Hydrocarbons on Carbon Blacks of Different Degrees of Graphitization (Teplota adsorbtsii uglevodorodov na sazhakh s razlichnoy stepen'yu grafitirova-

niya)

PERIODICAL:

Kolloidnyy zhurnal, 1958, vol XX, Nr 3, pp 298-304 (USSR)

ABSTRACT:

Card 1/2

In the article the adsorption isotherms and the differential heats of adsorption of 3-methylhexan and benzene on the black sferon-6, graphitized at 2,800°C, were studied. In Graph 1, the absolute adsorption isotherms of the two vapors on black sferon-6 heated to 1,700 and 2,800°C are represented. Both coincide, i.e. the temperature has no influence on the adsorption properties of blacks. The heats of adsorption of hydrocarbons on carbon black graphitized at 2,800°C are close to the theoretical values for the potential of adsorption

forces calculated previously.

There are 4 graphs, 3 tables, and 17 references, 13 of which

are Soviet and 4 English.

69-20-3-7/24

The Heat of Adsorption of Hydrocarbons on Carbon Blacks of Different Degrees of Graphitization

ASSOCIATION: Institut fizicheskoy khimii AN SSSR (Institute of Physical Chemistry of the USSR Academy of Sciences). Laboratoriya sorbtsionnykh protsessov (Laboratory of Sorption Processes)

SUBMITTED:

March 15, 1958

Card 2/2

1. Hydrocarbons-Heat of absorption 2. Carbon black-Appli-

_5'(4') AUTHORS:

Avgul', N. N., Berezin, G. I., Kiselev, A. V., Lygina, I. A.

SOV/62-59-5-5/40

TITLE:

Adsorption Heat of a Number of Isoalkanes, Naphthenes and of Toluene on Graphitized Carbon Black (Teplota adsorptsii ryada izoalkanov, naftenov i toluola na grafitirovannoy sazhe)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 5, pp 787 - 796 (USSR)

ABSTRACT:

In this work the following hydrocarbons were investigated as to their adsorption heat: three iscalkanes (nechexane, ischeptane, and iscoctane), two alicyclic hydrocarbons; cyclopentane and methylcyclopentane, and the alkylaromatic compound toluene. The hydrocarbons had been selected in this way in order to investigate the effect of the chain branching, the ring formation of these chains, and the introduction of aliphatic substituents into the naphthene and benzene ring on adsorption. The hydrocarbons used in the investigations had been synthetized at the Institut organicheakoy khimii AN SSSR (Institute of Organic Chemistry of the AS, USSR) by Ye. A. Mikhaylova, A. F. Plate, A. L. Liberman, and S. V. Zotova. The authors express their gratitude for their help. The constants of these substances are summariz-

Card 1/3

Adsorption Heat of a Number of Isoalkanes, Naphthenes SOV/62-59-5-5/40 and of Toluene on Graphitized Carbon Black

ed in table 1. "Sferon"-6 was used as adsorbent; it was graphitized at 1700°. The differential adsorption heat was determined at 200 in a calorimeter with constant heat exchange; the amount of the adsorption was determined by means of a capillary vacuum liquid microburet. Figures 1, 2 show the isothermal lines of adsorption of the various substances and figures 3, 4 show the dependence of the differential adsorption heat on the amount of heat adsorbed by the individual substances. The figures show that the normal adsorption heat of isoalkanes and naphthenes is lower than that of the corresponding n-alkanes. The value of the adsorption heat of cyclopentane amounts to only half of that of n-pentane. Cyclopentane, therefore, shows greater attraction towards the adsorption layer, its isothermal line of adsorption is concave at its beginning. It can be seen from the thermodynamic evaluation of the experimental data obtained that the isothermal line of adsorption of cyclopentane cannot be rapresented by the Langmuir equation or BET equation but by an equation which allows for the interaction adsorbate-adsorbate

Card 2/3

Adsorption Heat of a Number of Isoalkanes, Naphthenes SOV/62-59-5-5/40 and of Toluene on Graphitized Carbon Black

> (Fig 5). The entropy curves (Fig 6) indicate that the state of isoalkanes and naphthenes in the dense adsorption layer on graphite is much closer to the liquid state than that of n-alkanes. The methyl group in the toluene molecule reduces its mobility with respect to the unsubstituted benzene and the other purely cyclic compounds. With regard to the theoretical calculation of adsorption heat it was assumed that, in the case of the ramified hydrocarbons, the adsorption heat is an additive function of the number of carbon atoms in the molecule. The free adsorption energy and the surface of the adsorbent occupied by molecules were determined according to the same assumption. There are 6 figures, 3 tables, and 17 references, 12 of which are Soviet.

ASSOCIATION:

Institut fizicheskoy khimii Akademii nauk SSSR (Institute of

Physical Chemistry of the Academy of Sciences, USSR)

SUBMITTED:

July 25, 1957

Card 3/3

5(4) AUTHOR:

Berezin, G. I.

SOV/62-59-6-36/36

TITLE:

Letters to the Editor (Pis'ma redaktoru)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 6, p 1143 (USSR)

ABSTRACT:

In this letter to the editor the author describes a simple but nevertheless accurate relative method developed by him for measuring the heat capacity. It is based upon the compensation of the heating velocities of the bodies with the known capacity and the one to be determined, C2, C1, respectively. The heating velocity is the same. When equilibrium is attained

 $=\frac{2}{C_2}$ (1) holds, where w_1 and w_2 denote the heating power.

Instead of the heating power also the resistances R_f, R₂ of the heating coils connected either in series or parallel under introduction of an additional resistance R for the compensation

Card 1/2

of the heating velocity may be inserted in the above mentioned

Letters to the Editor

SOV/62-59-6-36/36

equation: $\frac{C_1}{R_1} = \frac{C_2}{R_2} \left(1 + \frac{R_1}{R_3}\right)^2$ (2). By checking the method it was

shown that the accuracy of the determinations (the ratio C/R) does not depend on the thermal conductivity of the system, the current intensity, and the amount of the current deviated by the resistance R3. The measuring error of the heat capacity according to this method did not exceed 0.01%. There are 2 references, 1 of

which is Soviet.

ASSOCIATION:

Institut fizicheskoy khimii Akademii nauk SSSR (Institute of

Physical Chemistry of the Academy of Sciences, USSR)

SUBMITTED:

April 6, 1959

Card 2/2

8(2)

SOV/32-25-4-45/71

AUTHOR:

Berezin, G. I.

TITLE:

Simple and Highly Sensitive Battery of Thermoelements for Measuring the Temperature of the Surface of Bodies (Prostaya i vysokochuvstvitel naya batareya termopar dlya izmereniya

temperatury poverkhnosti tel)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 4, pp 484-485 (USSR)

ABSTRACT:

To control the temperature of the envelope of adiabatic calorimeters, the temperature difference between the calorimeter surface and the envelope must be measured. This can be done by means of a differential battery of thermoelements. The manufacture of such a battery has already been described (Ref 1), and is described in the present case in a slightly modified form. The thermal battery consists of 1000 copper-constantan elements and has a sensitivity of about 4.10-2 v/degree which permits the galvanometer M 21/1 to be used and makes possible the measurement of a temperature difference of $\pm 2.10^{-6}$ degrees. The thermal battery for measuring the surface temperature represents, in principle (Fig 1), a spiral of constantan wire (D=0.1 mm) wound upon a thin-walled cylinder of mica or nitrofilm. To make this

Card 1/2

Simple and Highly Sensitive Battery of Thermoelements for Measuring the sov/32-25-4-45/71 Temperature of the Surface of Bodies

> thermobattery, the mica cylinder is placed on two metallic halfcylinders, the constantan wire is wound up, and the copper is applied electrolytically (Fig 2). The described battery can also be used in industry to determine the temperature of drying cylinders. A thermal battery consisting of 200 elements of copper-constantan (length of the spiral 100 mm, diameter 30 mm, turn 0.5 mm) has - at a temperature drop of 50° - a thermo emf of about 0.4 v'at a current intensity of about 1 ma. There are 2 figures and 1 reference.

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry of the Academy of Sciences, USSR)

Card 2/2

AVGUL', N.N.; BEREZIN, G.I.; KISELEV, AV.; LYGINA, I.A.

Adsorption and the heat of adsorption of n-pentane and n-hexane on barium sulfate. Izv. AN SSSR.Otd. khim. nauk no.11:1948-1954 N '60. (MIRA 13:11)

1. Institut fizicheskoy khimii AN SSSR.

(Heat of adsorption) (Pentane) (Hexane) (Barium sulfate)

BEREZIN, G.I.; KISELEV, A.V.; SINITSYN, V.A.

Heat capacity of the adsorption system silica gel - water. Dokl. AN SSSR 135 no.3:638-641 N '60. (MIRA 13:12)

1. Institut fizicheskoy khimii Akademii nauk SSSR. Predstavleno akad. V.I. Spitsynym. (Heat capacity) (Silica)

AVGUL', N.H.; BEREZIN, G.I.; KISELEV, A.V.; LYGINA, I.A.

Adsorption and heat of adsorption of normal alcohols on graphitized carbon black. Isv. AN SSSR. Otd. khim. nauk no.2:205-214 F '61.

1. Institut fizicheskoy khimii AN SSSR. (MIRA 14:2)
(Adsorption) (Carbon black) (Alcohols)

BEREZIN, G.I.; KISELEV, A.V.; SINITSYN, V.A.

Dependence of the average molar heat capacity of an adsorbate on the differential heat of accorption. Koll.zhur. 23 no.5: 638-639 S-0 '61. (MIRA 14:9)

1. Institut fizicheskoy khimii AN SSSR, Gruppa khimii poverkhnosti, Moskva. (Heat of adsorption) (Heat capacity) (Systems (Chemistry))

BEREZIN, G.I.; KISELEV, A.V.; SFRDOBOV, M.V.

Continuously heated adiabatic differential calorimeter with continuous adsorbate feed for measuring the heat of adsorption on small solid surfaces. Zhur. fiz. khim. 36 no.9:2091-2095 S '62. (MIRA 17:6)

1. Institut fizicheskoy khimii AN SSSR.

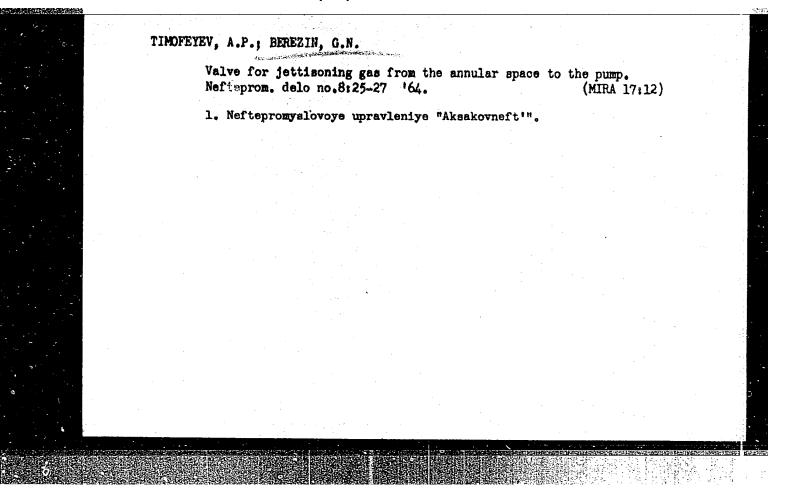
Heat capacity of the adsorption systems silica gel - water - bensene - n - hexane. Zhur.fis.khim. 37 no.2:325-332 F *63. (MIRA 16:5)

1. Institut fizicheskoy khimii AN SSSR. (Silica) (Benzene) (Hexane) (Heat of adsorption)

PEREZIN, G.I. (Moscow); KISELEV, A.V. (Moscow); KOZLOV, A.A. (Moscow)

Calorimeter for measuring heat capacities of disperse bodies and adsorption systems from 120 to 300°K. Zhur.fiz.khim. 38 no.8:2106-2110 Ag '64. (MIRA 18:1)

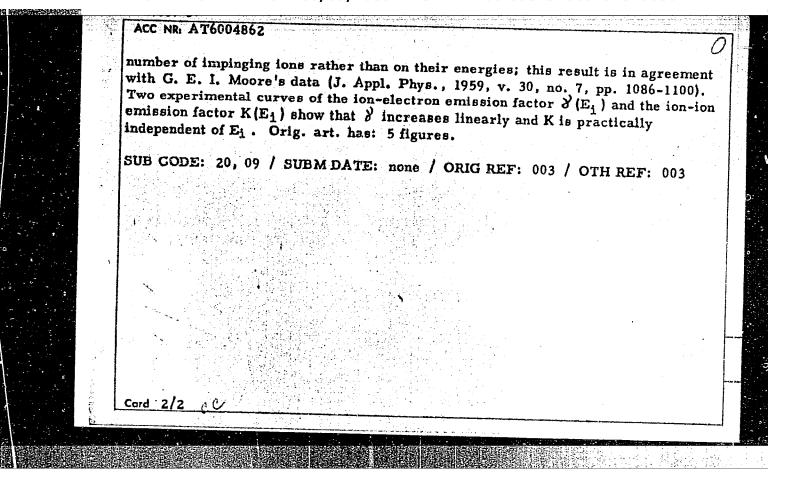
1. Institut fizicheskoy khimii AN SSSR.



ACC NR. AT6004862 SOURCE CODE: UR/2563/65/000/255/0166/0171 AUTHOR: Berezin, G. N.; Zarutskiy, Ye. M.; Lepeshinskaya, V. N. B+1 ORG: none * TITLE: Effect of cesium-ion bombardment upon the secondary-emission properties of alloy-type magnesium-oxide and beryllium-oxide emitters SOURCE: Leningrad. Politekhnicheskiy institut. Trudy, no. 255, 1965. Radioelektronika (Radio electronics), 166-171 TOPIC TAGS: secondary emission, photomultiplier, ion bombardment, magnesium oxide, beryllium compound, cesium, electron emission ABSTRACT: Important for understanding the photomultiplier-fatigue phenomenon, an experimental investigation was organized of the effect of cesium-ion bombardment upon the secondary-electron-emission factor o of magnesium-oxide and berylliumoxide films that are formed as a result of activation of CuAlMg and CuAlBe alloys. Experimental curves of $\sigma(E_p)$, σ_{max} / $\sigma_{o max}$ vs. E i and I i for 10-, 30-, and 60min bombardment in a 10-6-torr vacuum are shown; Ei is the ion energy and Ii is the density of the ion beam. The fall-off of the o max / o o max curve depends on the

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000204820008-7"

Card 1/2

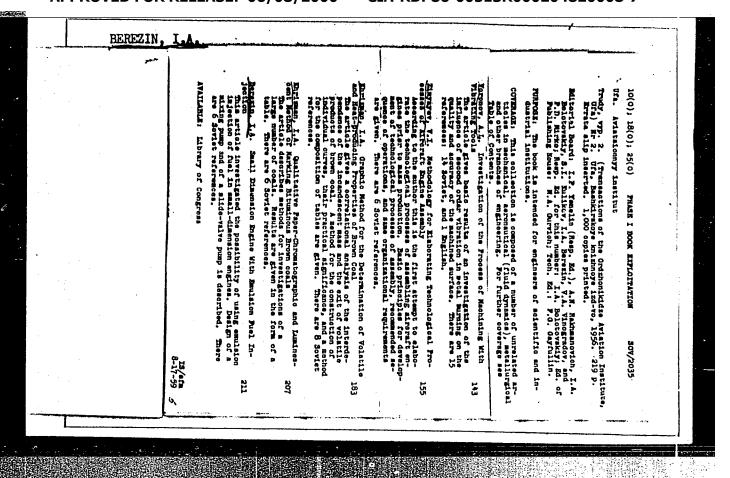


Pane of the Vyatka handi craft workers. Prom.koop.no.5:31-32 My '56. (Kirov Prevince--Handicraft) (NLFA 9:9)

BEREZIN, I. Toward new milestones. Mest.prom.i khud.promys. 2 no.8: 7-8 Ag '61. (MIRA 14:9) 1. Predsedatel! proisvodstvenno-massóvoy komissii komiteta profsoyuza Verkhne-Pyshminskogo metallozavoda, Sverdlovskaya oblast'. (Sverdlovsk Province-Metal industry-Labor productivity)

CIA-RDP86-00513R000204820008-7"

APPROVED FOR RELEASE: 06/08/2000



SOV/120-59-1-47/50

AUTHORS: Berezin, I. A., Voronkov, M. I.

TITIE: A Device for Loading the Samples into a Vacuum System (Bunker dlya zagruzki obraztsov v vakuumnuyu ustanovku)

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 1, p 152 (USSR)

ABSTRACT: The device described is shown diagrammatically in the figure (see upper half of p 152). The tube 3 contains a polished plug 4 with a helix 2. The tube 3 is inserted into the system in such a way that the open end 1 of the helix is above the crucible of a vacuum furnace. The samples are loaded through the open end of the helical tube in such a way that each turn of the tube contains one sample. The plug is then lubricated with vacuum grease and inserted into the plug. In this way, the samples are progressively displaced of the tube. The paper contains 1 figure.

ASSOCIATION: Fizicheskiy institut AN SSSR (Physics Institute of the Academy of Sciences, USSR)

SUBMITTED: January 22, 1958.

Card 1/1

SOV/120-59-1-48/50

AUTHORS: Berezin, I. A., Voronkov, M. I.

TITLE: A Capillary Tap (Kapillyarnyy kran)

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 1, p 152 (USSR)

ABSTRACT: The device is illustrated diagrammatically in the figure (see lower half of p 152). It is in the form of a two-way valve with two apertures in its plug. The aperture 2 is used in the preliminary evacuation of the tube leading to the gas container. The gas is let in through the capillary tube 1, whose diameter can be arbitrarily small. This permits a very accurate regulation of the pressure of the gas which is admitted into the vacuum system. The paper contains 1 figure.

ASSOCIATION: Fizicheskiky institut AN SSSR (Physics Institute of the Academy of Sciences USSR)

SUBMITTED: January 20, 1958.

Card 1/1

8/051/60/008/03/025/038

E201/E191 AUTHORS: Berezin, I.A., and Stepanova, A.I.

TITLE: On the Problem of Sensitization of Photographic Plates in

the Ultraviolet Region of the Spectrum

PERIODICAL: Optika i spektroskopiya, 1960, Vol 8, Nr 3,

pp 408-410 (USSR)

Card

1/2

ABSTRACT: To increase the sensitivity of photographic plates in the

far ultraviolet they are frequently coated with luminescent substances. The authors studied such sensitization of photographic plates of I, II and III spectroscopic types, micro and iso-ortho plates.

Transformer oil, vaseline oil and sodium salicylate wereused as sensitizers. The results obtained (Figs 1-4) lead

the authors to recommend a 20% solution of sodium

salicylate in a 50/50% mixture of water and ethyl alcohol

for sensitization of type III spectroscopic plates in the region 2000-2300 1. The plates are immersed in the solution for 3 sec and are dried in an air stream for several minutes. The layer of sodium salicylate should not be washed off before developing. Such sensitized

plates do not deteriorate when stored for considerable

8/051/60/008/03/025/038 E201/E191

On the Problem of Sensitization of Photographic Plates in the Ultraviolet Region of the Spectrum

periods of time. Card

There are 4 figures and 7 Soviet references. 2/2

SUBMITTED: July 30, 1959

S/075/60/015/004/029/030/XX B020/B064

AUTHORS: Berezin, I. A. and Aleksandrovich, K. V.

TITLE: Determination of Phosphorus in Beryllium Oxide by the

Spectrographic Method

PERIODICAL: Zhurnal analiticheskoy khimii, 1960, Vol. 15, No. 4,

pp. 509 - 510

TEXT: The methods of spectrographic control of the purity of beryllium and beryllium oxide are described in Refs. 1 - 3, however, phosphorus has not been determined. Only 0.003% P can be determined when the sample is filled into carbon electrodes. The authors developed a method which makes it possible to determine up to 0.001% P in beryllium oxide without previous concentration. The powdery samples were diluted with coal dust at a ratio of 3:1, put in a colloidal solution in ethyl alcohol, and applied to the lateral surfaces of graphite cylinders 40 mm in diameter and 80 mm long. Then, they were dried for 15 - 20 minutes at 100 - 150°C and introduced into the light

Card 1/2

Determination of Phosphorus in Beryllium Oxide by the Spectrographic Method

S/075/60/015/004/029/030/XX B020/B064

source (Fig. 1). The cylindrical electrode was forced into a cylindrical motion with an CA-2(SD-2) electromotor. The spectra were recorded with an MCM-22(ISP-22) spectrograph. The light source was a broken a.c. arc of a AF-1(DG-1) generator with a chopper. The amperage was 14 a, the burning time and the interval of the arc were 0.5 sec each. Standards with a phosphorus content from 0.001 to 0.1% P were obtained by grinding Ca₃(PO₄)₂ with pure beryllium oxide. Pure beryllium oxide was obtained by annealing BeCO3.10 (OH) at 700 - 800° for one hour. 3% Bi2O3 was added as a standard sample in each case. The intensity of the lines PI 2136.2 - Bi 2133.6 was measured. The calibration curve was recorded in the coordinates (los C; AS), where C is the phosphorus concentration in the standard samples, and ΔS is the varying degree of blackening (Fig. 2). The accuracy of phosphorus determination in beryllium oxide by the method described is 0.001%; the reproducibility of the results of analysis in the concentration range between 0.005 and 0.1% is \pm 5 - 6%, while at concentrations lower than 0.005% reproducibility decreases to + 10 - 15%. There are 2 figures and 3 references: 2 Soviet and 1 US. SUBMITTED: July 30, 1959 Card 2/2

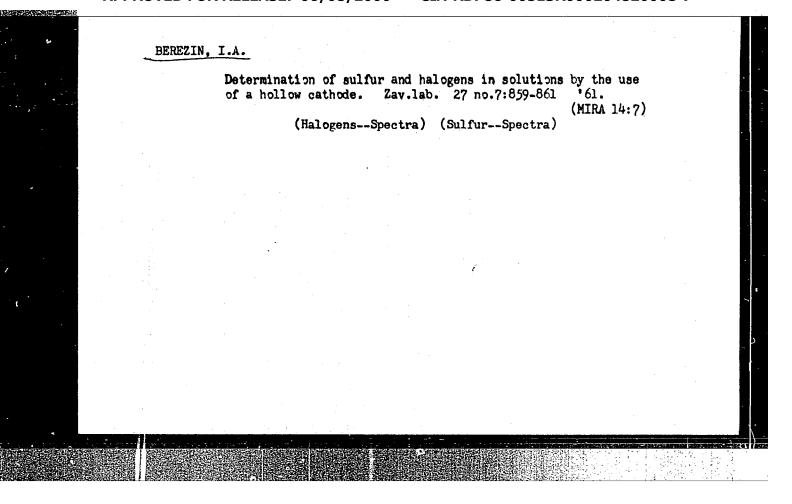
USTINOV, Mikhail Alekseyevich; MOISEYEV , M.I., red.; EKREZIN, F.A., red.; MARAKASOVA, L.P., tekhn. red.

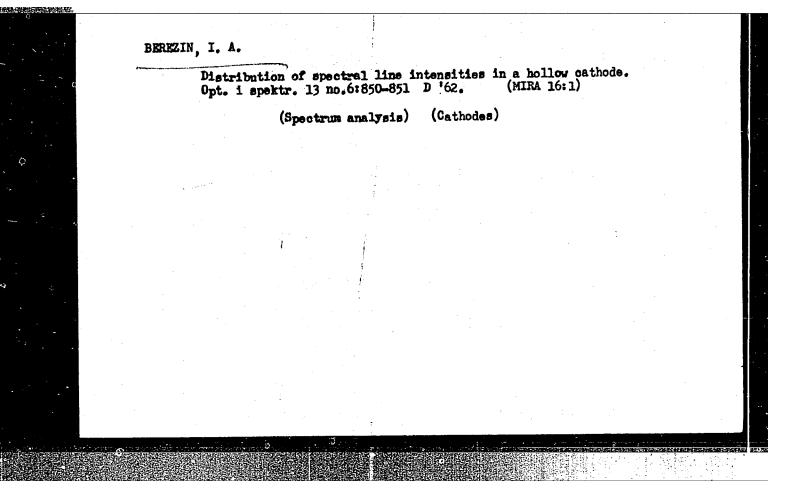
[New developments in collective-farmers' wages] Novoe v oplate truda kolkhoznikov. Pod red. M.I.Moiseeva. Moskva, Izd-vo "Sovetskaia Rossiia," 1961. 46 p. (MIRA 15:2)

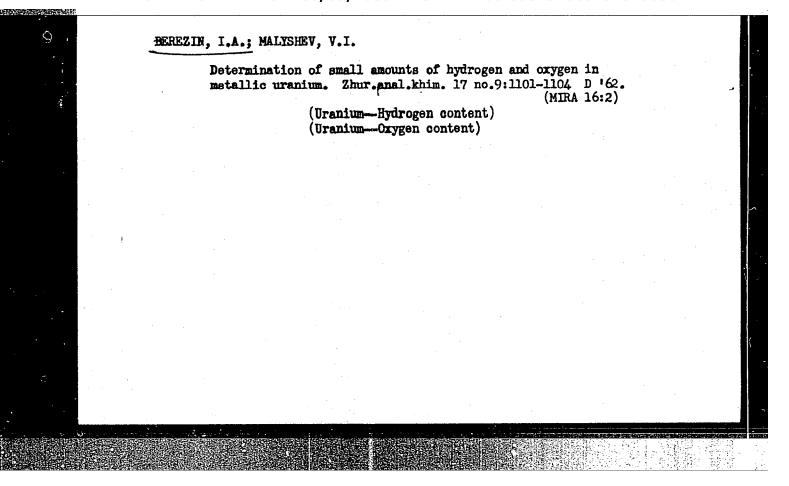
1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Moiseyev). (Collective farms—Income distribution)

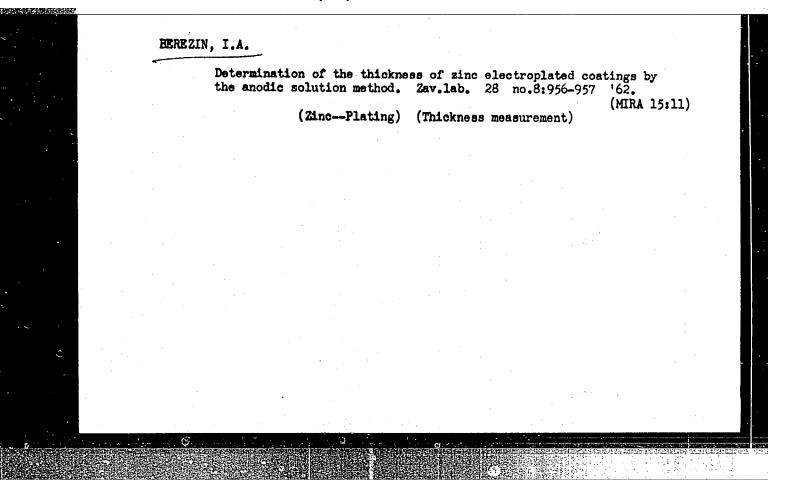
BEREZIN, I.A.; ALEKSANDROVICH, K.V.

Determination of sulfur, chlorine, and fluorine in beryllium oxide by the spectrographic method. Zhur.anal.khim. 16 no.5:613-616 S-0 '61. (MIRA 14:9) (Beryllium oxide) (Sulfur-Spectra) (Halogens-Spectra)







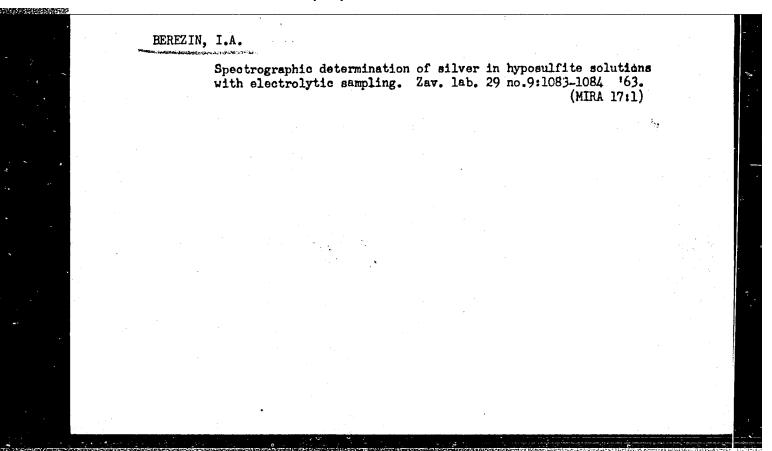


TRUNOV, Dmitriy Ivanovich; BEREZIN, I.A., red.; MARAKASOVA, L.P., tekhn. red.

[Treasure gorges; four trips through the Northern Caucasus]
Ushchel'ia sokrovishch; 4 puteshestviia po Severnomu Kavkazu.
Moskva, Izd-vo "Sovetskaia Rossia," 1963. 380 p.

(MIRA 16:12)

(Caucasus, Northern-Description and travel)



5/051/63/014/001/004/031 E039/E120

Berezin, I.A., and Yanovskaya, G.N. AUTHORS:

A study of the excitation of iodine in a hollow cathode

PERIODICAL: Optika i spektroskopiya, v.14, no.1, 1963, 23-28 TITLE:

The dependence of the intensity of the spectral lines of iodine on the composition of the gas sustaining the discharge, the gas pressure, the current intensity and the presence of an impurity with a lower excitation potential, is investigated. The sensitivity for determining iodine in an atmosphere of neon is one order higher than for argon, while in helium it is two orders higher than for neon (10 mm Hg gas pressure, 250 mA). Standards containing 10% iodine were used with A and Ne, and O.1% iodine with He. The subsequent measurements were carried out in He. At pressures less than 5 mm and more than 20 mm the condition of the discharge in the hollow cathode deteriorated, hence the pressure dependence of the iodine lines was determined over the range 7.5 to 17 mm. As the pressure was increased the intensity of the majority of the lines either decreased or remained constant; only a few increased in intensity, in particular 5338.19 and 5407.36 Å. Card 1/2

As the current was increased, so did the intensity of all the the 5338.19 and 5407.36 % lines the intensity depended approximately the square of the current. With increasing concentration of sodium; which has a low excitation potential, the intensity of all the iodine lines decreased uniformly. In addition, the intensities of the spectral lines of lodine, chlorine, bromine and sulphur in a basis of collision processes. The results are explained on the There are 2 figures and 3 tables.

SUBMITTED: November 27, 1961

UDACHIN, Sergey Alekşandrovich, prof., doktor ekon. nauk; BEREZIN, I.A., red.

[Land resources of Russia] Zemel'nye bogatstva Rossii. Mc-skva, Sovetskaia Rossiia, 1963. 409 p. (MIRA 17:6)

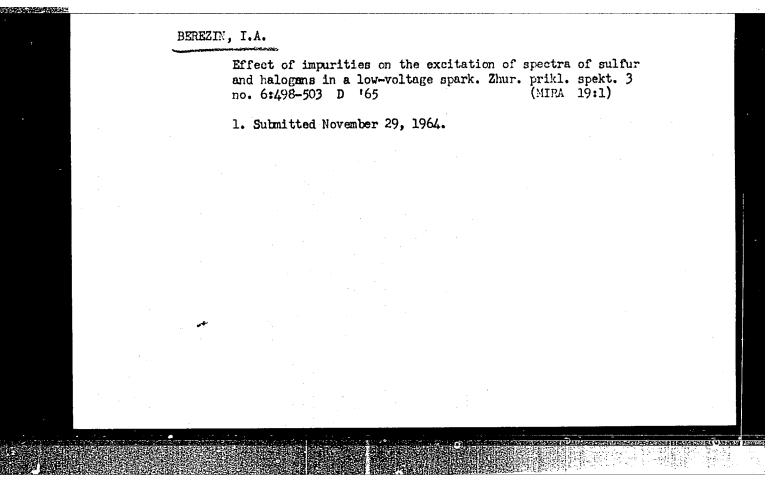
OVSYANNIKOV, Nikolay Gavrilovich; BEREZIN, I.A., red.

[Arteries of fertility] Arterii plodorodiia. Moskva,
Sovetskaia Rossiia, 1964. 50 p. (MIRA 18:1)

1. Pervyy zamestitel' predsedatelya Goszemvodkhoza
RSFSR (for Ovsyannikov).

BEREZHNOY, Konstantin Leont'yevich, kand. ist. nsuk; OSIFOV,
Mikhail Georgiyevich, zhurnalist; BEREZIN, I.A., red.

[On the rise; story about the "Proletarskaia Volia" Collective Farm in Stavropol Territory] Na vzlete; rasskaz
o kolkhoze "Proletarskaia volia" Stavropol'skogo kraia.
Moskva, Sovetskaia Rossiia, 1964. 124 p. (MIRA 17:8)



ENT(d)/ENT(1)/ENP(m)/ENT(m)/ENP(t)/ETT/ENP(k) 10P(c) SOURCE CODE: UR/0294/66/004/003/0419/0423 ACC NR AP6021218 AUTHOR: Kul'gavchuk, V. M., Shishkin, Yu. B., Berezin, I. A. (Moscow) ORG: none TITLE: Measurement of the temperature in the first stage of the electrical explosion of wires SOURCE: Teplofizika vysokikh temperatur, v. 4, no. 3, 1966, 419-423 TOPIC TAGS: silver, copper, constantan, exploding wire, electric inductance, temperature measurement ABSTRACT: The purpose of the present article is to determine the temperature in the first state of an electrical explosion as a function of the energy input into copper, silver, and constantan wires at different warm-up times. The experimental set-up consisted of a currentpulse condenser oscillator (condenser capacity, 1 µf; discharge circuit inductance without the inductance wire, 0.058 µh; and with an additional coil, 1.7 µh), two UM-2 monochromators 10 with FEU-27 photomultipliers at their outputs, cathode followers, amplifiers (with 0.1-usec rise time), and two OK-21 Bscillographs, one of which recorded the discharge circuit current and the wire voltage, and the other, the intensity of the continuous spectrum in selected sectors. The oscillator lagged 0.2 usec behind the start of the oscillograph sweep. A panel Card 1/4UDC: 533.9.082.5

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ACC NR: AP6021218

box with an input slit and a semitransparent mirror was located in front of the monochromators. Table 1 shows the energy input time (the duration of the warm-up current pulse before

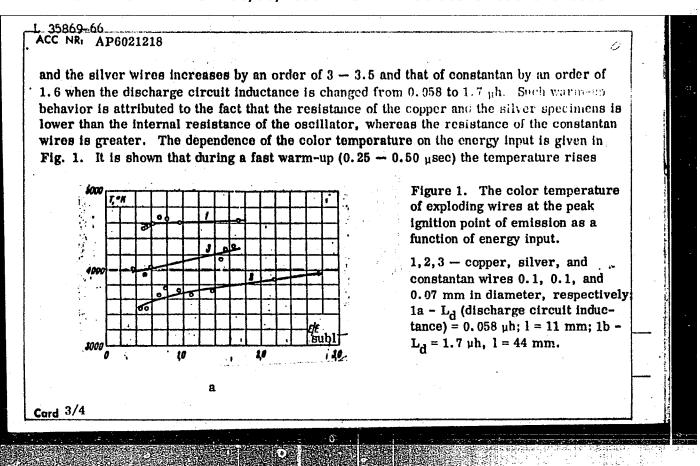
Table 1. Energy input time and light pulse duration (discharge voltage = 7kv)

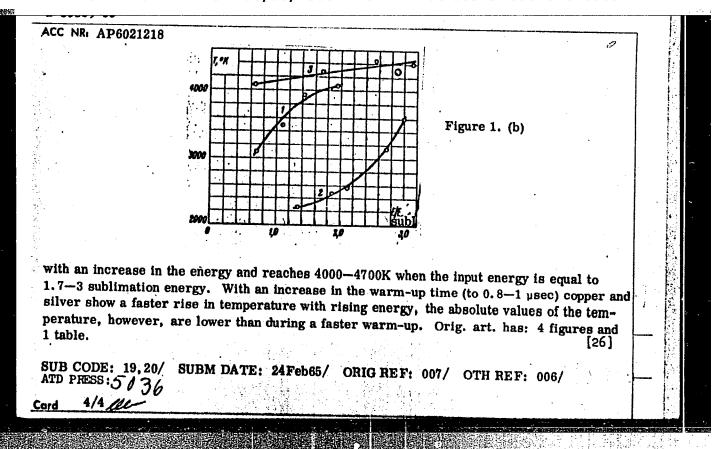
Specimen	Warm-Up Time µsec			Emission time,		Color Temperature at E=1.5E _{subl} , o _K		
	L ₁ *		L ₂ *	÷ .	L ₁	${\tt L_2}$	L ₁	$^{\mathtt{L}}_{2}$
Copper 2	0.35		1.0		0.5	1.2	4600	3900
Silver 27	0.25		0.9		0.4	1.0	3700	2300
Constantan_ (0.50		0.8		0.6	1.0	4200	4200
Constantan_ (0.50	T 1 !	•*		0.6	1.0	4200	4200

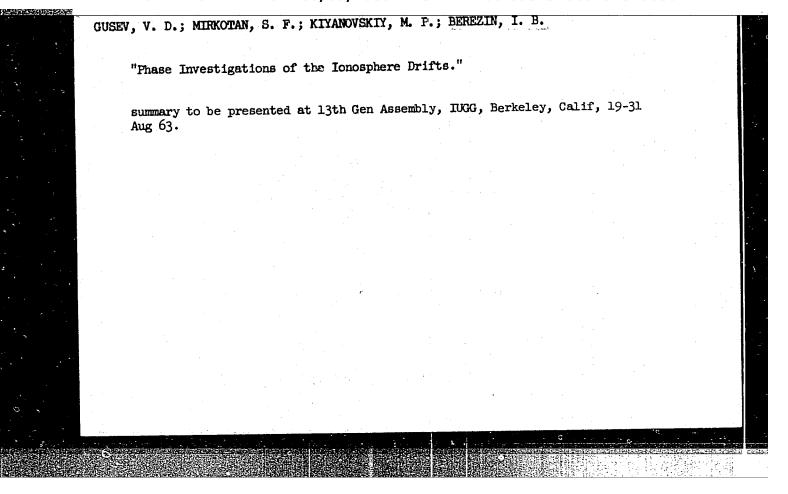
* $L_1 = 0.058 \mu h$, $L_2 = 1.7 \mu h$.

the appearance of the current break), and the light pulse duration (the time from the beginning of the leading edge of the pulse up to the extrapolated value of the linear segment of the trailing edge to zero level) at a discharge voltage of 7 kv. The warm-up time of the copper

Card 2/4

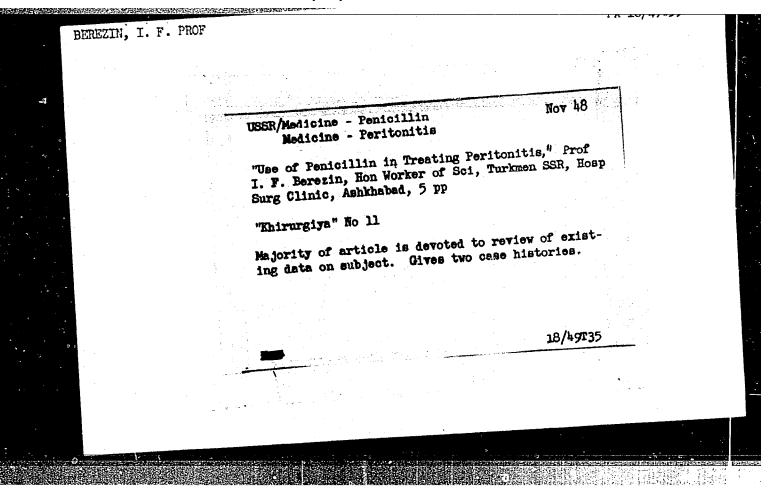






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CIA-RDP86-00513R000204820008-7



BEREZIN, I. F.

28014. BEREZIN, I. F. -- K voprosu o chrezplevral nykh operatsiyakh po povodu raka pishchevoda. Yubileynyy sbornik khirurg. Rabot, postyashch. Prof. Shilovtsevu. Kuybyshev, 1949, S. 66-77.

SO: Letopis! Zhurnal'nykh Statey. Vol. 37, 1949.

BEREZIN, I.F., prof., saslushennyy deyatel nauki Turkmenskoy SSR. Seventeenth International Surgical Congress in Mexico. Zdrav. Turk. 2 no.1:46-49 Ja-F '58. (MIRA 12:6 (MEXICO (CITY)--SURGERY--CONGRESSES)

CIA-RDP86-00513R000204820008-7"

APPROVED FOR RELEASE: 06/08/2000

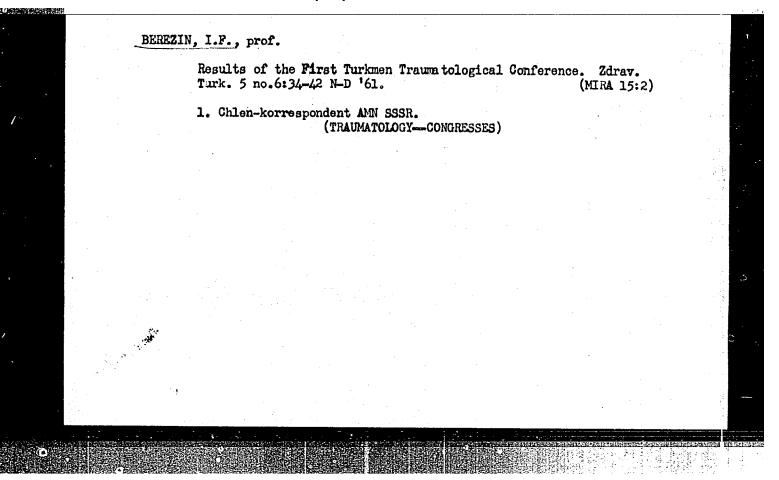
Prevention of accidents and the organization of first aid for trauma. Zdrav.Turk. 2 no.3:3-7 My-Je '58. (MIRA 12:6) (ACCIDENTS--PREVENTION) (FIRST AID IN HILINESS AND INJURY)

BEREZIN, I.F., prof.

Planuing research problems of institutions of the Tatar A.S.S.R.
Public Health Ministry from 1959 to 1965. Zdrav.Turk. 3 no.4:3-8
J1-Ag 159. (MIRA 13:2)

1. Predsedatel Uchenogo soveta Minadrava TSSR.

(TATAR A.S.S.R.--PUBLIC HEALTH)



SHDOV, K.R., kand.med.nauk; UTKIN, G.I., kand.med.nauk; BEREZIN, I.M.

Characteristics of accidents in the construction of the Kuybyshev Hydroelectric Power Station. Ortop.travm. i protez. 20 no.3:60-61 Mr 159. (MIRA 12:6)

1. Iz khirurgicheskogo otdeleniya (nach. - kand.med.nauk G.I.Utkin) Portovoy bol'nitsy "Kuybyshevgidrostroya" (nach. kand.med.nauk K.R.Sedoy). (ACCIDENTS, INDUSTRIAL

in construction of hydroelectric station (Rus))

SEDOV, K.R., kand.med.nauk; UTKIN, G.I., kand.med.nauk; BEREZIN, I.M.

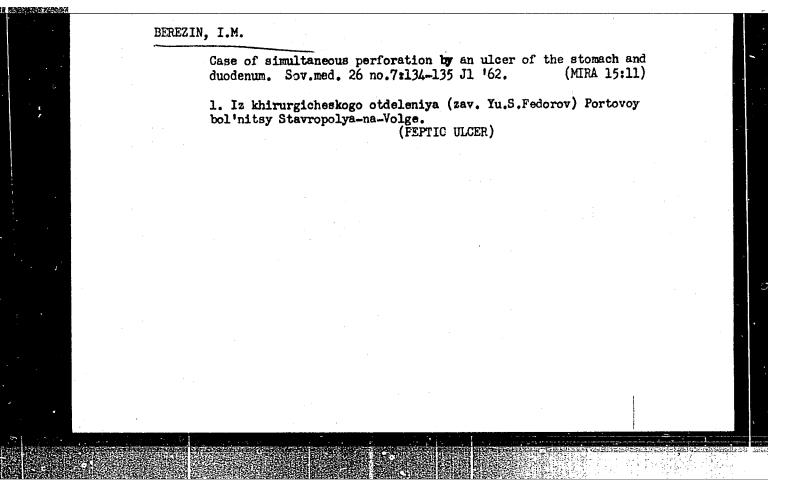
Organization of medical and hygiene care at the construction site of Kuibyshev. Sov. sdrav. 19 no.3:29-30 '60. (MIRA 14:6)

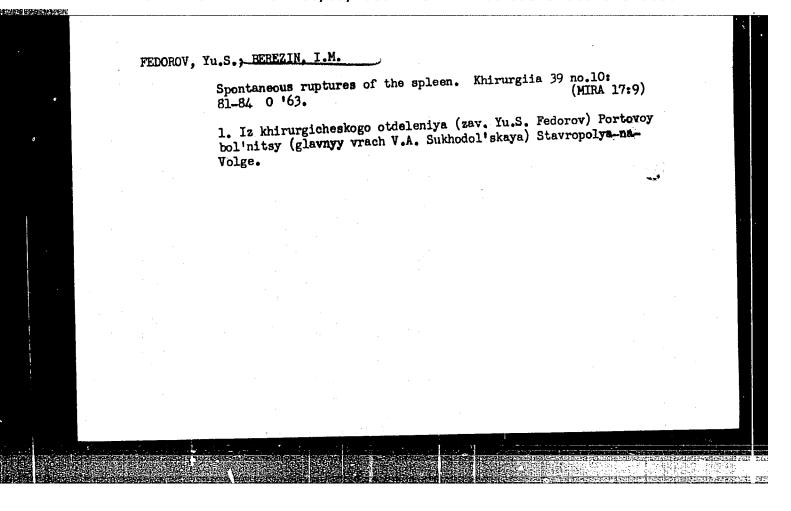
1. Iz portovoy bol'nitsy "Kuybyshevgidrostroya" (nachal'nik - kandidat meditsinskikh nauk K.R.Sedov).
(VOLGA HYDROELECTRIC POWER STATIONS—HYGIENIC ASPECTS)

BEREZIN, I.M.; RAGIMOVA, A.M. (Moskva)

Esterification process in the liquid phase exidation of octadecane. Zhur. fiz. khim. 35 no. 4:842-847 Ap '61. (MIRA 14:5)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. (Octadecane) (Esterification) (Oxidation)

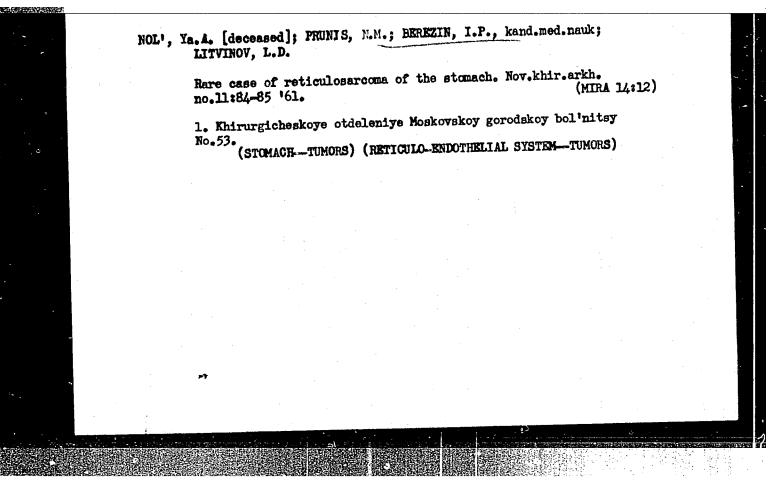




BEREZIN, I. P.

BEREZIN, I. P. - "The Combination of Weak Solutions of Novocaine, Dicaine, and Sovcaine ('Tricaine') for Infiltration Anesthesia." Sub 11 Jan 52, First Moscow Order of Lenin Medical Inst. (Dissertation for the Degree of Candidate in Medical Sciences).

SO: Vechernaya Moskva Vanuary-December 1952



BEREZIN, I. P. (Moskva, K-9, Stoleshnikov per., 5, kv. 36); GOLOSOVSKAYA, M. A. (Moskva, Leninskiy pr., 7, kv. 20)

Cystoadenoma of the pancreas. Vop. onk. 6 no.12:57-59 160. (MIRA 15:7)

1. Iz khirurgicheskogo otdeleniya (vedushchiy khirurg - prof.

D. E. Odinov), patologoanatomicheskogo otdeleniya (zav. otdeleniyem - prof. I. A. Kusevitskiy) 53-y Moskovskoy gorodskoy bol¹nitsy (glavnyy vrach - S. G. Rynkevich).

(PANCREAS__TUMORS)

BEREZIN, I.P.

Concentration of antibiotics in the blood and bile of cholecystitis patients. Antibiotiki 8 no.2:175-179 F'63. (MIRA 16:7)

1. Khirurgicheskoye otdeleniye (vedushchiy khirurg - prof. D.E. Odinov) i klinicheskaya laboratoriya (zav. M.E.Chaban) 53-y gorodskoy bol'nitsy (glavnyy vrach S.G. Rynkevich) Moskvy. (GALLBLADDER-DISEASES) (ANTIBIOTICS)

ANAN'YEV, M.G. (Moskva A-55, Novoslobodskaya ul., d.57/65, kv.18); BEREZIN, I.P.

> Operating room with high atmospheric pressure; a survey of the literature. Grud. khir. 6 no.6:93-98 N-D 164. (MIRA 18:7)

1. Nauchno-issledovatel'skiy institut eksperimental'noy knirurgicheskoy apparatury in instrumentov (direktor: M.G. Anan'yev), Moskva.

ANAN'YEV, M.G.; BEREZIN, I.P.; SHCHUPAKOV, N.N.; KOPYLOV, V.I.

Surgery performed in an operating room under increased atmospheric pressure. Eksper. khir. i anest. 9 no.3:14-18 My-Je '64.

(MIRA 18:3)

1. Nauchno-issledovatel'skiy institut eksperimental'noy khirurgicheskoy apparatury i instrumentov (dir. M.G. Anan'yev) i Vsesoyuznyy tsentral'nyy nauchno-issledovatel'skiy institut okhrany truda (dir. M.Ye. TSutskov) Vsesoyuznogo tsentral'nogo soveta professional'nykh soyuzov, Moskva.

BEREZIN, I.P.; EPSHTEYN, I.M.; KASHCHEVSKAYA, L.A.

Use a pair of gold and iron electrodes in electrochemical registration of the oxygen regime in tissues in vivo. Eksper. khir. i anest. 9 no.3:18-19 My-Je (4. (MIRA 18:3)

1. Nauchno-issledovatel'skiy institut eksperimental'nov khirurgicheskoy apparatury i instrumentov (dir. M.G. Anan'yev) i Unkologicheskiy institut imeni Gertsena (dir. - prof. A.N. Novikova), Moskva.

ACC NRI AT6036498 SOURCE CODE: UR/0000/66/000/000/0065/0066 AUTHOR: Berezin, I. P.; Seregin, G. I.; Rostovtsev, B. N. ORG: none TITLE: Experimental evidence of the establishment of an oxygen reserve during oxygenation of tissues under high pressure Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24 to 27 May 1966] SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 65-66 TOPIC TAGS: hyperoxia, oxygen excess pressure, electroencephalography, animal physiology, tissue oxygen saturation ABSTRACT: Because existing procedures for theoretical computation of the oxygen reserves created in the organism by excess pressure oxygen breathing are difficult and sometimes imprecise, studies were conducted to determine experimentally the degree of oxygen reserves created in the animal organism under various definite conditions. The duration of continued EEG activity in the brain of rabbits after the cessation of respiration was used as an index of the oxygen reserve. Altogether, 7 series of experiments were conducted on 70 rabbits in an experimental pressurized operating room: the first 4 series studied the duration of continued brain bioelectric activity **Card** 1/2

after cut-off of oxygen breathed for 30 min at pressures of 1, 2, 3, and 3, 6 at.

The 5th series was conducted at 3 at . but with CO2 removed from the

The 5th series was conducted at 3 at. but with CO₂ removed from the respiratory tract after external respiration with oxygen was cut off; the 6th series was designed to show the effect of CO₂ on tissue O₂ saturation at 3 at. and the 7th series studied the persistence of brain bioelectric activity when circulation and respiration cease simultaneously.

It was found that brain bioelectric activity in rabbits always persists considerably longer under conditions of pressure oxygen breathing than at normal pressure, and that up to a certain point the persistence of EEG activity increases with increased atmospheric pressures.

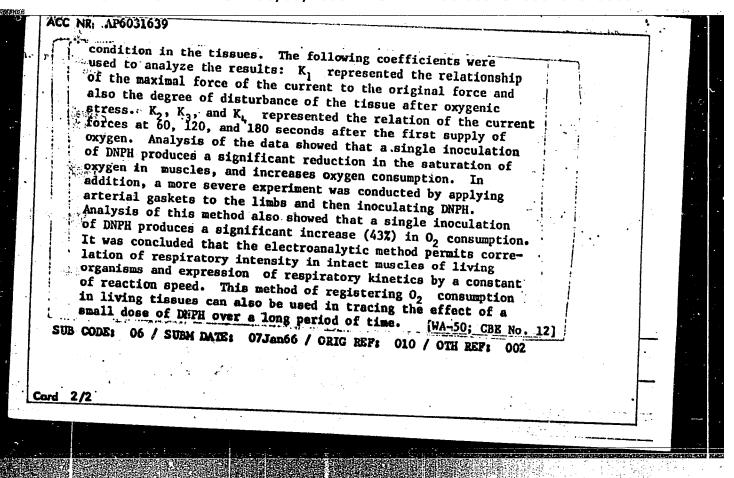
The experimental data obtained show that respiration of atmospheres with elevated pO₂ creates considerable oxygen reserves in the tissues, which may serve both therapeutic as well as other medical and biological purposes. [W.A. No. 22; ATD Report 66-116]

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Card 2/2 egk

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were conducted with white rats: in one group, a water were conducted with white rats: in one group, a water of 2,4 dinitrophenol (DNPH) with a concentration of 1/2 of 2,4 dinitrophenol (DNPH) with a course of 80 days; in the c	50 1e	
were conducted when (DNPH) with a concentration of 2,4 dinitrophenol (DNPH) was injected in the course of 80 days; in the concentration of 2,4 dinitrophenol (DNPH) was injected in the course of 80 days; in the concentration of 2,4 dinitrophenol (DNPH) was injected in the course of 80 days; in the concentration of 2,4 dinitrophenol (DNPH) was injected once; in the concentration of 2,4 dinitrophenol (DNPH) with a concentration	the	
of 2,4 dintrophenous of of days, and (1.5 mg/kg) was injected in the course of of days, and (1.5 mg/kg) was injected in the course of of days, and (1.5 mg/kg) was injected once; second group the same dosage of DNPH was injected once; second group the control and received no injection.	A	
specially constitutes of 5 L/min, thus allowing a result of 100% oxygen at a rate of 5 L/min, thus allowing a result oxygen that are the special change of the air with respired CO ₂ , was used. An electromagnetic of the oxygen self-recording potentiometer (YePPO9) studied the oxygen self-recording potentiometer (YePPO9).	nic	
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1. Iz ginekologicheskogo otdeleniya (zav. M.A. Panasevich) 58-y gorodskoy bol'nitsy (glavnyy vrach S.G. Rynkevich) Moskvy.